AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Currently Amended) A trimeric unsymmetrical polyurethane polyol comprising the reaction product of:
 - a) a diisocyanate;
 - b) an aliphatic diol having 1-6 carbon atoms; and
- c) a polymeric diol having at least one oxycarbonyl linkage and having from 5-20 carbon atoms,

wherein the polyurethane polyol <u>comprises an oligomer having an</u> <u>average molecular weight distribution of three monomeric units and</u> includes hydroxyl termination.

- 2. (Previously Presented) A polyurethane polyol as in claim 1, wherein the diisocyanate is selected from the group consisting of 2,2,4-trimethylhexamethylene diisocyanate, 1,6-hexamethylene diisocyanate, 1,1'-methylene-bis-(4-isocyanatocyclohexane), 4,4'-methylene-bis-(cyclohexyl diisocyanate), hydrogenated toluene diisocyanate, 4,4'-isopropylidene-bis-(cyclohexyl isocyanate), 1,4-cyclohexyl diisocyanate, 4,4'-dicyclohexyldiisocyanate, and 3-isocyanato methyl-3,5,5-trimethylcyclohexyl diisocyanate, and mixtures and combinations thereof.
- 3. (Previously Presented) A polyurethane polyol as in claim 1, wherein the diisocyanate is aliphatic.
- 4. (Previously Presented) A polyurethane polyol as in claim 1, wherein the aliphatic diol is selected from the group consisting of 1,2-propanediol, ethyl-1,3-hexanediol, 1,6-hexanediol, 2-methyl propanediol, and 1,5-pentanediol, and mixtures and combinations thereof.

- 5. (Previously Presented) A polyurethane polyol as in claim 1, wherein the aliphatic diol includes an odd number of carbon atoms.
- 6. (Previously Presented) A polyurethane polyol as in claim 1, wherein the polymeric diol is selected from the group consisting of polycarbonate diols and polycaprolactone diols, and mixtures thereof.
- 7. (Previously Presented) A polyurethane polyol as in claim 1, wherein the diisocyanate is 2,2,4-trimethylhexamethylene diisocyanate, wherein the aliphatic diol is 1,5-pentanediol, and wherein the polymeric diol is polyoxohexylene carbonate diol.
- 8. (Previously Presented) A polyurethane polyol as in claim 1, wherein the ratio of the diisocyanate:aliphatic diol:polymeric diol is from about 1:1.9:0.1 to about 1:1.1:0.9
- 9. (Previously Presented) A polyurethane polyol as in claim 1, wherein the reaction product comprises a low viscosity, non-crystalline substantially 100 percent solids material.
- 10. (Currently Amended) A coating composition comprising the reaction product of:
- a) a hydroxy-terminated polyurethane polyol precursor <u>comprising</u> an oligomer having an average molecular weight distribution of three monomeric <u>units</u>, the <u>precursor</u> comprising the reaction product of:
 - i) a diisocyanate;
 - ii) an aliphatic diol having 1-6 carbon atoms; and
- iii) a polymeric diol having at least one oxycarbonyl linkage and having from 5-20 carbon atoms; and
 - b) a polyisocyanate.

- 11. (Previously Presented) A coating composition as in claim 10, wherein the polyisocyanate is selected from the group consisting of 2,4,6-trioxo-1,3,5-tris(6-isocyanatohexyl)hexahydro-1,3,5-triazine, N-isocyanatohexylaminocarbonyl-N,N'-bis(isocyanatohexyl)urea, the biuret of hexanediisocyanate, polymeric methane diisocyanate, and polymeric isophorone diisocyanate.
- 12. (Previously Presented) A coating composition as in claim 10, wherein the composition further comprises a catalyst for promoting reaction of the polyurethane polyol precursor with the polyisocyanate.
- 13. (Previously Presented) A coating composition as in claim 10, wherein the catalyst is selected from the group consisting of dibutyltin dilaurate, dibutyltin diacetate, stannous octoate, butyl stannoic acid, and bismuth carboxylate.
- 14. (Previously Presented) A coating composition as in claim 10, wherein the composition further comprises one or more additives selected from the group consisting of antioxidants, colorants, UV absorbers, light stabilizers, and surfactants.
- 15. (Previously Presented) A coating composition as in claim 10, wherein the diisocyanate of the polyurethane polyol precursor is selected from the group consisting of 2,2,4-trimethylhexamethylene diisocyanate, 1,6-hexamethylene diisocyanate, 1,1'-methylene-bis-(4-isocyanatocyclohexane), 4,4'-methylene-bis-(cyclohexyl diisocyanate), hydrogenated toluene diisocyanate, 4,4'-isopropylidene-bis-(cyclohexyl isocyanate), 1,4-cyclohexyl diisocyanate, 4,4'-dicyclohexyldiisocyanate, and 3-isocyanato methyl-3,5,5-trimethylcyclohexyl diisocyanate, and mixtures and combinations thereof.

- 16. (Previously Presented) A coating composition as in claim 10, wherein the aliphatic diol is selected from the group consisting of 1,2-propanediol, ethyl-1,3-hexanediol, 1,6-hexanediol, 2-methyl propanediol, and 1,5-pentanediol, and mixtures and combinations thereof.
- 17. (Previously Presented) A coating composition as in claim 10, wherein the polymeric diol is selected from the group consisting of polycarbonate diols and polycaprolactone diols, and mixtures thereof.
- 18. (Previously Presented) A coating composition as in claim 10, wherein the polyurethane polyol precursor comprises the reaction product of 2,2,4-trimethylhexamethylene diisocyanate, 1,5-pentanediol, and polyoxohexylene carbonate diol.
- 19. (Previously Presented) A coating composition as in claim 18, wherein the polyurethane polyol precursor is further reacted with 2,4,6-trioxo-1,3,5-tris(6-isocyanatohexyl)hexahydro-1,3,5-triazine in the presence of dibutyltin dilaurate as a catalyst.
- 20. (Currently Amended) A substrate having a coating on at least one surface thereof, said coating comprising the reaction product of:
- a) a hydroxy-terminated polyurethane polyol precursor <u>comprising</u> an oligomer having an average molecular weight distribution of three monomer <u>units</u>, the <u>precursor</u> comprising the reaction product of:
 - i) a diisocyanate;
- ii) an aliphatic diol having 1-6 carbon atoms; and
- iii) a polymeric diol having at least one oxycarbonyl linkage and having from 5-20 carbon atoms; and
 - b) a polyisocyanate.

- 21. (Previously Presented) A substrate as in claim 20, wherein the substrate is glass.
- 22. (Previously Presented) A substrate as in claim 20, wherein the substrate comprises a polymeric material.
- 23. (Previously Presented) A substrate as in claim 22, wherein the substrate comprises a polycarbonate sheet.